ABSTRACT OF THE DISCLOSURE

Various embodiments of mechanisms for bridging data representation language messaging based distributed computing environments to foreign environments are described. A device proxy may implement a device protocol and a distributed computing environment protocol to bridge devices into the distributed computing environment. A client proxy is described that implements the distributed computing environment protocol on behalf of a foreign client such as a browser. A service proxy is described that implements the distributed computing environment protocol on behalf of a foreign service. A transport proxy is described that routes data representation language messages between two different message transports. A distributed computing environment client proxy may allow distributed computing environment clients to access Remote Method Invocation (RMI) -based environment services. An RMI-based environment client proxy may allow RMI-based environment clients to access distributed computing environment services.